

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1 Claim 1 (currently amended): A micro-oscillation element, comprising:
2 a movable main section;
3 a first frame and a second frame;
4 a first connecting section that connects the movable main section and the first frame and
5 defines a first axis of rotation for a first rotational operation of the movable main section with respect
6 to the first frame;
7 a second connecting section that connects the first frame and the second frame and defines
8 a second axis of rotation for a second rotational operation of the first frame and the movable main
9 section with respect to the second frame;
10 a first drive mechanism for generating a driving force for the first rotational operation; and
11 a second drive mechanism for generating a driving force for the second rotational operation;
12 wherein the first axis of rotation and the second axis of rotation are not orthogonal; and
13 wherein the first frame has four sides including an electrode supporting side, a part of the first
14 drive mechanism extending from said electrode supporting side of the first frame toward the
15 movable main section, a part of the second drive mechanism extending from said electrode
16 supporting side of the first frame toward the second frame.

Claim 2 (canceled).

1 Claim 3 (currently amended) The micro-oscillation element according to claim [[2]] 1,
2 wherein at least one of the first drive mechanism and[[/or]] the second drive mechanism comprises
3 a set of comb tooth-shaped electrodes.

1 Claim 4 (currently amended): The micro-oscillation element according to claim [[3]] 1,
2 wherein the first drive mechanism and the second drive mechanism are ~~constituted such that they~~
3 ~~can be~~ operated under common control.

1 Claim 5 (original): The micro-oscillation element according to claim 4, wherein the first
2 drive mechanism and the second drive mechanism are connected electrically in parallel.

1 Claim 6 (currently amended): The micro-oscillation element according to claim [[3]] 1,
2 wherein the first drive mechanism and the second drive mechanism are electrically separated[[,]] and
3 ~~are constituted such that they can be~~ operated under mutually independent control.

Claim 7 (canceled).

1 Claim 8 (currently amended): ~~A micro-oscillation element, comprising:~~
2 ~~a movable main section;~~
3 ~~a frame;~~
4 ~~a connecting section that connects the movable section and the frame and defines an axis of~~
5 ~~rotation for a rotational operation of the movable section with respect to the frame; and~~
6 ~~a drive mechanism comprising a first comb tooth-shaped electrode and a second comb~~
7 ~~tooth-shaped electrode for generating a driving force for the rotational operation;~~
8 ~~the first comb tooth-shaped electrode and/or the second comb tooth-shaped electrode~~
9 ~~comprising electrode teeth having a structure wherein an electrically separated first conductor section~~
10 ~~and second conductor section, and an insulating section interposed between the first and second~~
11 ~~conductor sections, are layered in the direction of the rotational operation~~ The micro-oscillation
12 element according to claim 1, wherein at least one of the first drive mechanism and the second drive
13 mechanism comprises a first comb tooth-shaped electrode and a second comb tooth-shaped
14 electrode,
15 at least one of the first comb tooth-shaped electrode and the second comb tooth-shaped
16 electrode having a laminated structure which includes a first conductor section, a second conductor
17 section, and an insulating section interposed between the first and second conductor sections.

1 Claim 9 (currently amended): ~~A micro-oscillation element, comprising:~~
2 ~~a movable main section;~~

3 a frame;

4 ~~a connecting section that connects the movable section and the frame and defines an axis of~~
5 ~~rotation for a rotational operation of the movable section with respect to the frame; and~~

6 ~~a drive mechanism comprising a first comb tooth-shaped electrode and a second comb~~
7 ~~tooth-shaped electrode for generating a driving force for the rotational operation;~~

8 ~~the first comb tooth-shaped electrode comprising electrode teeth having a structure wherein~~
9 ~~an electrically connected first conductor section and second conductor section, and an insulating~~
10 ~~section interposed between the first and second conductor sections, are layered in the direction of~~
11 ~~the rotational operation; and~~

12 ~~the second comb tooth-shaped electrode comprising electrode teeth consisting of a third~~
13 ~~conductor section that opposes the first conductor section and does not oppose the second conductor~~
14 ~~section, when the element is not driven~~ The micro-oscillation element according to claim 1, wherein
15 at least one of the first drive mechanism and the second drive mechanism comprises a first comb
16 tooth-shaped electrode and a second comb tooth-shaped electrode,

17 the first comb tooth-shaped electrode having a laminated structure which includes a first
18 conductor section, a second conductor section, and an insulating section interposed between the first
19 and second conductor sections,

20 the second comb tooth-shaped electrode having a third conductor section facing the first
21 conductor section above the second conductor section when the micro-oscillation element is not
22 driven.

1 Claim 10. (original): The micro-oscillation element according to claim 9, wherein the first
2 conductor section and the third conductor section are of different lengths in the direction of rotational
3 operation.

1 Claim 11 (currently amended): The micro-oscillation element according to claim 9, wherein
2 at least one ~~electrode~~ of the ~~set of~~ first and second comb tooth-shaped electrodes has a base section
3 and electrode teeth extending from the base section, the electrode teeth having regions that gradually
4 increase in width or thickness towards ~~an end of~~ the base section ~~side~~.

1 Claim 12 (currently amended): The micro-oscillation element according to claim 9, wherein
2 at least one ~~electrode~~ of the ~~set of~~ first and second comb tooth-shaped electrodes has a base section
3 and electrode teeth extending from the base section, the electrode teeth having regions that gradually
4 increase in width as approaching the other comb tooth-shaped electrode.

1 Claim 13 (currently amended): The micro-oscillation element according to claim 1, wherein
2 the first connecting section has a cavity ~~section~~ that becomes wider as approaching the movable main
3 section, ~~in addition to which, or instead of which, and~~ the second connecting section has a cavity
4 ~~section~~ that becomes wider as approaching the first frame.

U.S. Patent Application Serial No. **10/790,762**
Amendment filed June 9, 2006
Reply to OA dated January 9, 2006

1 Claim 14 (currently amended): The micro-oscillation element according to claim [[9]] 1,
2 wherein ~~the connecting section has a cavity that becomes wider as approaching the movable section~~
3 said part of the first drive mechanism, said part of the second drive mechanism, the first connecting
4 section, and the second connecting section extend from said electrode supporting side of the first
5 frame.

Claims 15-30 (canceled).